WE CLAIM:

1. Synchronizer ring, having a ring body (2) which has a sliding region, the sliding region being provided with a wear-resistant tribological coating, characterized in that the tribological coating (4) is a thermally sprayed coating which contains a maximum of approximately 40% by weight of a solid lubricant.

2. Synchronizer ring according to Claim 1, characterized in that the solid lubricant is titanium dioxide (TiO_2), calcium fluoride (CaF_2), hexagonal boron nitride (h-BN), graphite, lead (Pb) or molybdenum sulphide (MoS_2) or any desired mixture of these substances.

3. Synchronizer ring according to Claim 1, characterized in that the solid lubricant has a particle size of up to approximately 200 µm and preferably of between 50 µm and 180 µm.

4. Synchronizer ring according to one of the preceding claims, characterized in that the thermally sprayed coating (4) furthermore contains tin and/or zinc and/or silicon and/or nickel and/or manganese and/or copper and/or aluminium and/or one or more of their oxides and/or one or more of their carbides and/or one or more of their nitrides and/or carbon.

5. Synchronizer ring according to one of the preceding claims, characterized in that the thermally sprayed coating has a porosity of up to approximately 30%.

6. Process for applying a wear-resistant tribological coating to the sliding region of a synchronizer ring, characterized in that the coating (4) is thermally sprayed, a spraying compound

which contains at most approximately 40% by weight of a solid lubricant being used.

7. Process according to Claim 6, characterized in that the solid lubricant used is titanium dioxide (TiO_2), calcium fluoride (CaF_2), hexagonal boron nitride (h-BN), graphite, lead (Pb) or molybdenum sulphide (MoS_2) or any desired mixture of these solid lubricants.

8. Process according to Claim 6, characterized in that a spraying compound is used which furthermore contains tin and/or zinc and/or silicon and/or nickel and/or manganese and/or copper and/or aluminium and/or one or more of their oxides and/or one or more of their carbides and/or one or more of their nitrides and/or carbon.

9. Process according to Claim 6, characterized in that the coating is applied in a wire arc spraying process and/or a flame spraying process.

10. Process according to Claim 9, characterized in that the spraying compound used is a filled wire which has a filling which contains a solid lubricant and, if appropriate, tin and/or zinc and/or silicon and/or nickel and/or manganese and/or copper and/or aluminium and/or one or more of their oxides and/or one or more of their carbides and/or one or more of their nitrides and/or carbon.

11. Process according to Claim 10, characterized in that a filled wire with a covering of copper and/or tin and/or zinc and/or aluminium and/or their alloys is used.

12. Process according to one of the preceding claims, characterized in that, in addition to a filled wire, a solid wire, preferably made from CuAl8, is used as the spraying compound.

13. Process according to one of Claims 6 to 12, characterized in that the sliding region (3), prior to the application of the coating (4), is roughened, preferably sand-blasted and degreased.

14. Process according to one of Claims 6 to 13, characterized in that the coating (4) is stamped after it has been applied.